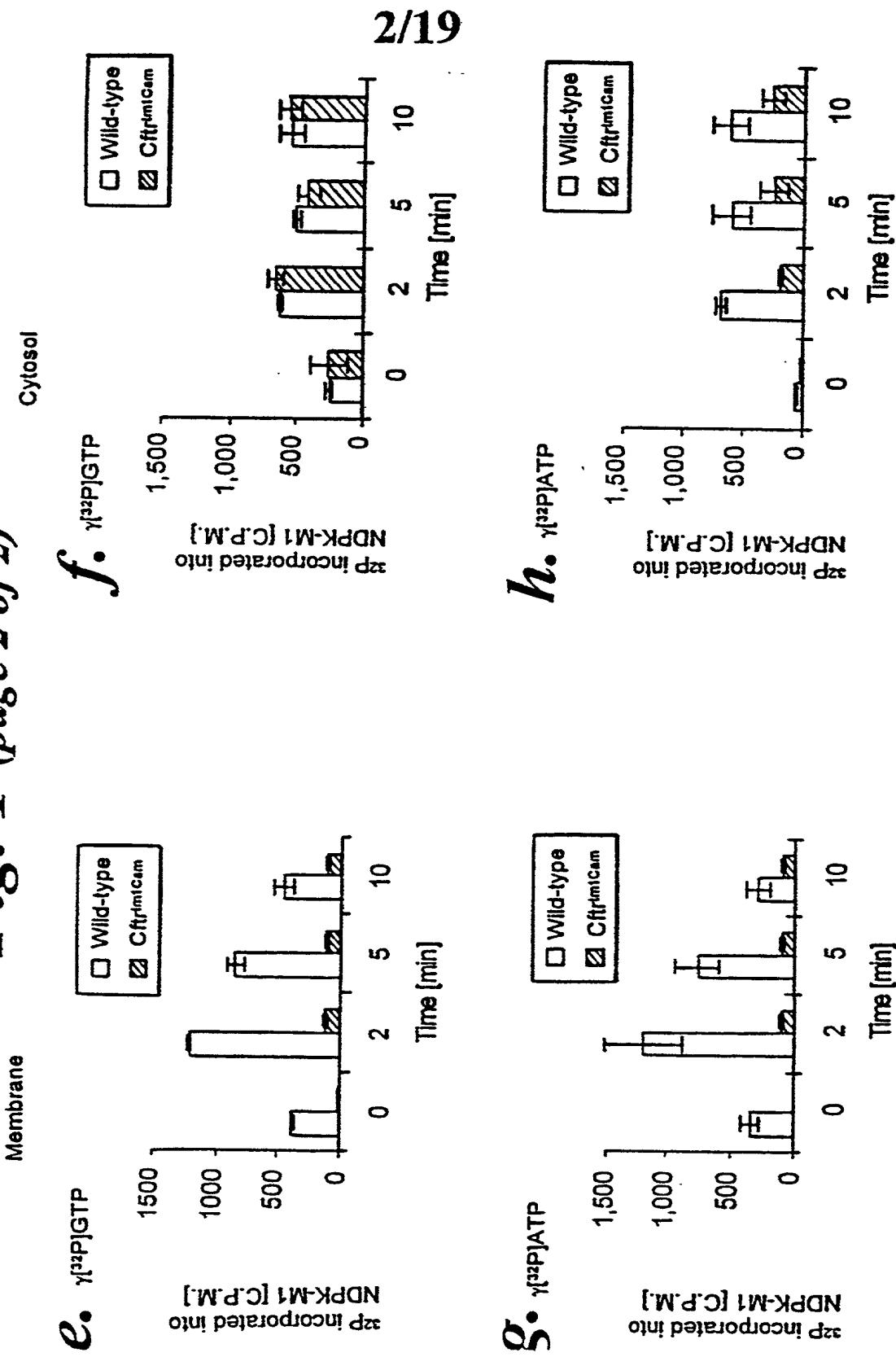


Fig. 1 (page 1 of 2)

Fig. 1 (page 2 of 2)



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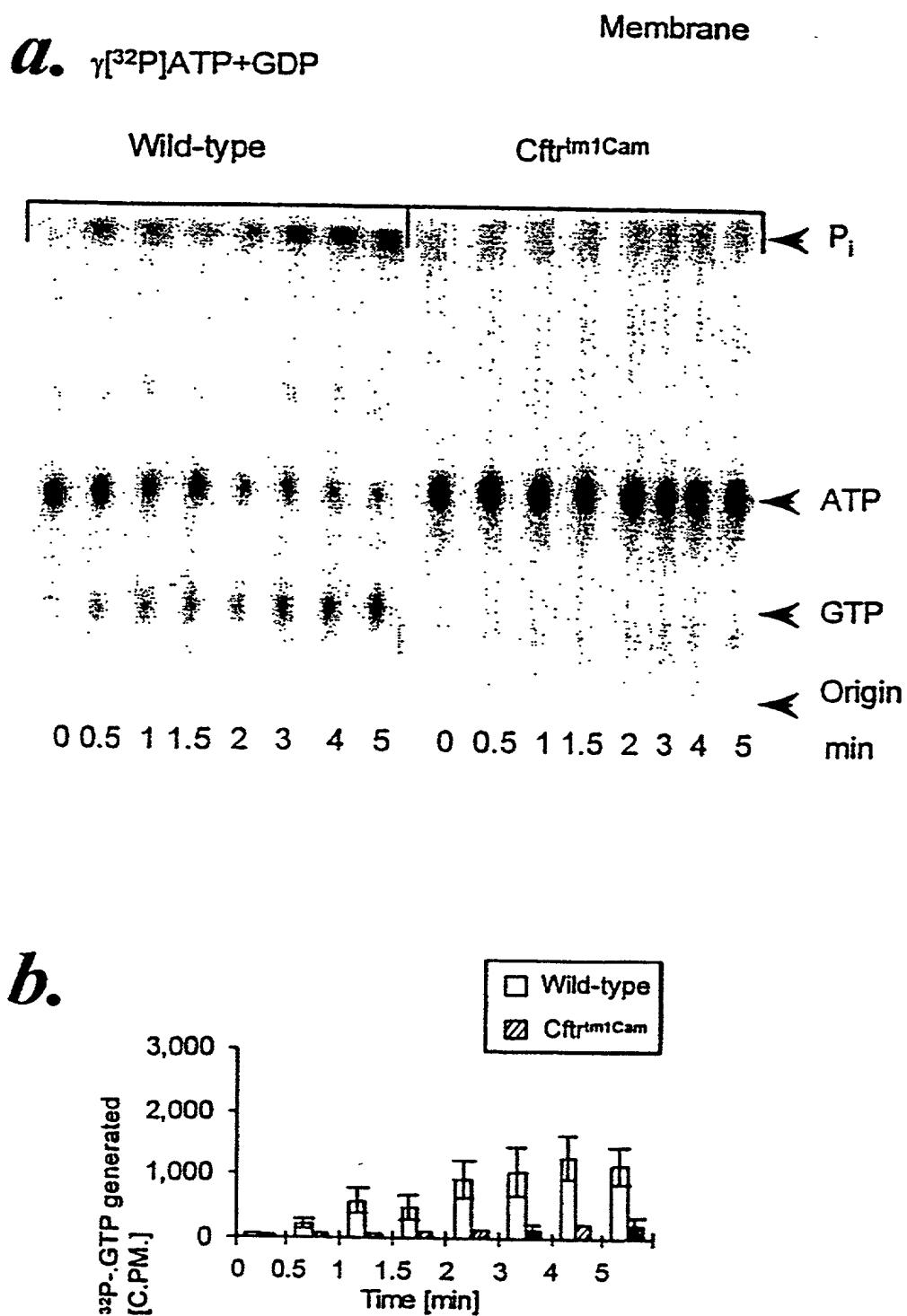


Fig. 2 (page 1 of 3)

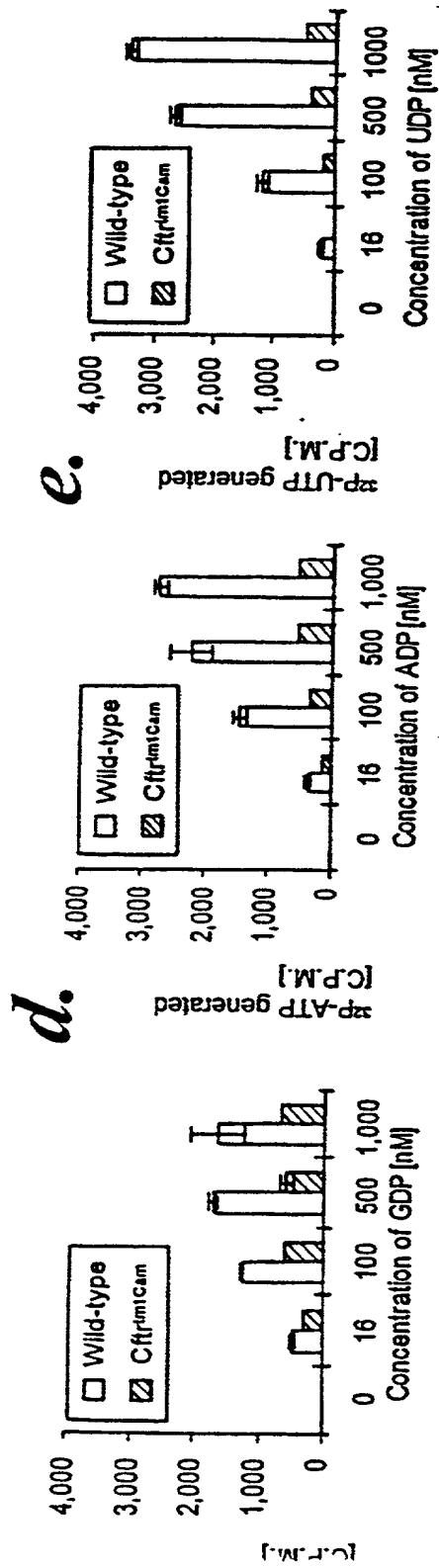
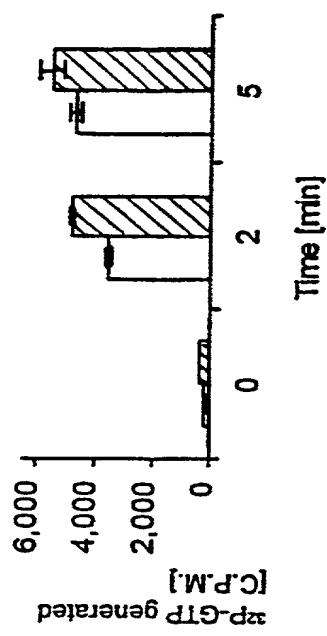
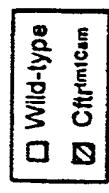


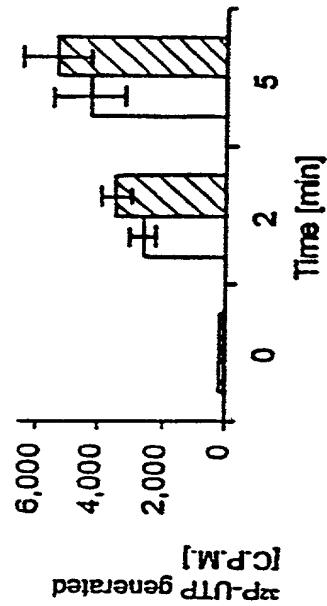
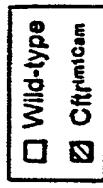
Fig. 2 (page 2 of 3)

Cytosol

f. $\gamma^{[32]}\text{P}$]ATP+GDP



g. $\gamma^{[32]}\text{P}$]ATP+UDP



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h. $\gamma^{[32]}\text{P}$]GTP+ADP

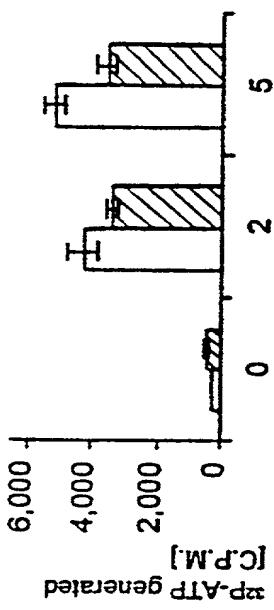
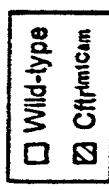


Fig. 2 (page 3 of 3)

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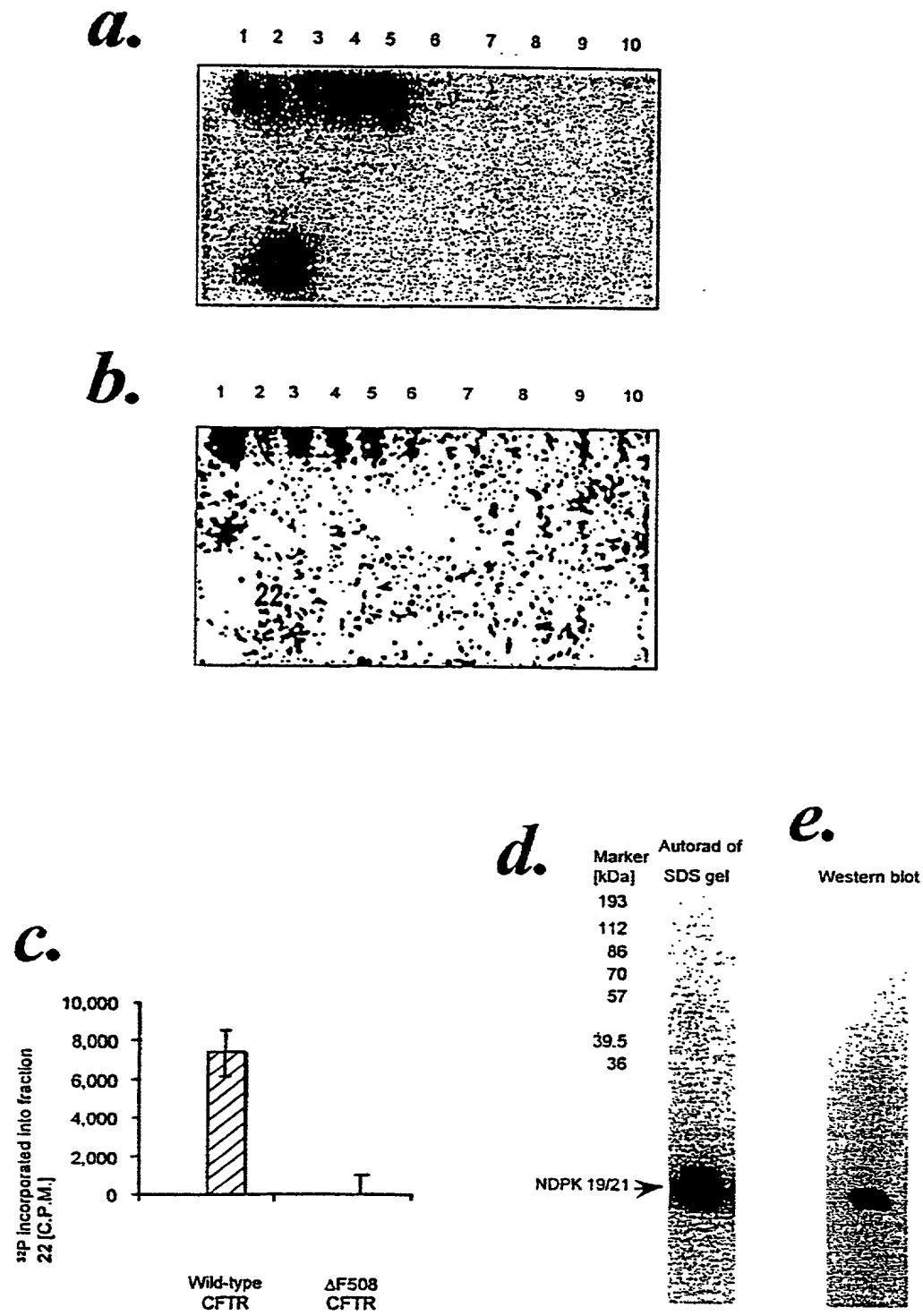


Fig. 3

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a.

Wild-type membranes

Nm23	Nm23
H1	H1
alone	+ peptide



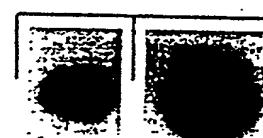
b.

Membranes (100 μ g protein/lane)

Cytosol (100 μ g protein/lane)

Wild-type	CFTR null (-/-)
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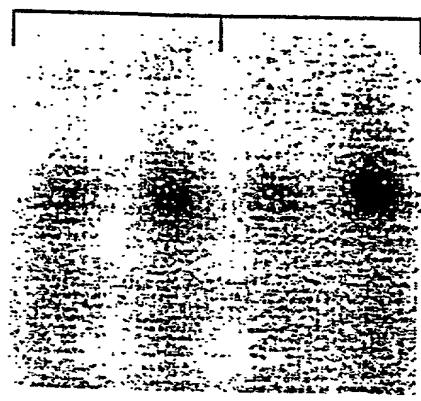
Wild-type	CFTR null (-/-)
-----------	-----------------



c.

Plasmid alone

Plasmid + CFTR



d.

Marker Plasmid alone Plasmid + CFTR

NDPK-M1
NDPK-M2
0 2 0 2 min

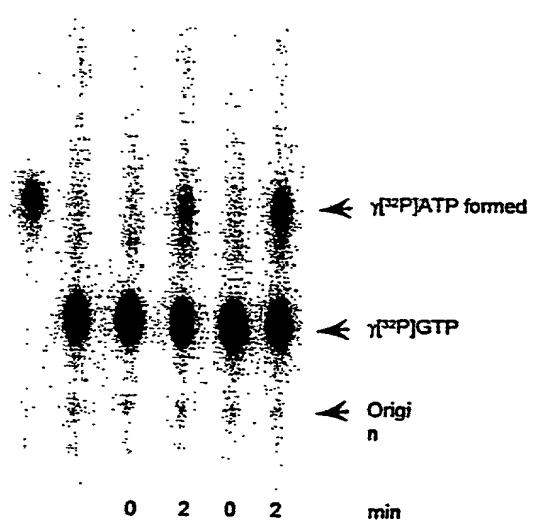
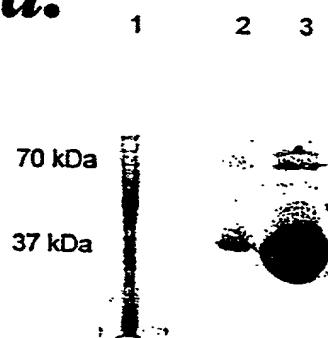


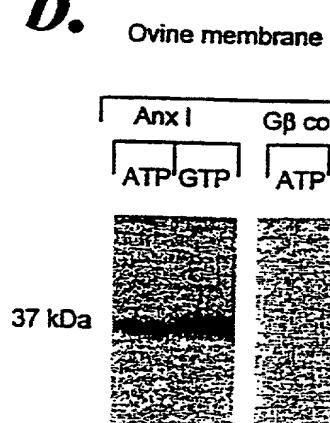
Fig. 4

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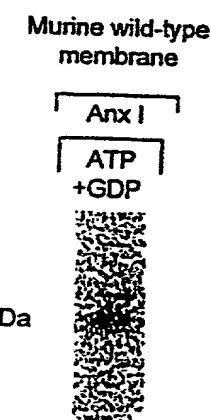
a.



b.



c.

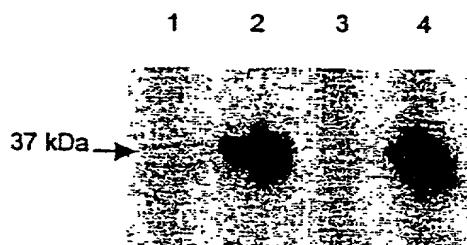


d.

1 MAMVSEHLKQ AWFIENEEQE YIKTVKGSKG GPGSAVSPYP TFNPSSDV EA LHKAITVKGV
 61 DEATIIEILT KRNNAQORQOI KAAYLQEKGK PLDEVLKKAL LGHLEEVV LA LLKTPAQF DA
 121 EELRAAMKG GL GTDEDITLNEI LASRTNR EIR EINRVHREEL KRDIAKDIAS DTSGDYEK AL
 181 LALAKGDRSE ELAVNDDLAD SDARALYEAG EHRKGTDV NV FTIILTTRSY PHLRRVFQ KY
 241 SKYSKHD MNK VLDLELKGD EKCLTVIVKC ATS QPMFFAE KLHQAMKGIG TRHKT LIRIM
 301 VSRSEIDMND IKACYQKLYG ISLCQAIL E TKGDYEKILV ALCGRD

e.

$\gamma^{32}\text{P}]\text{ATP}$



f.

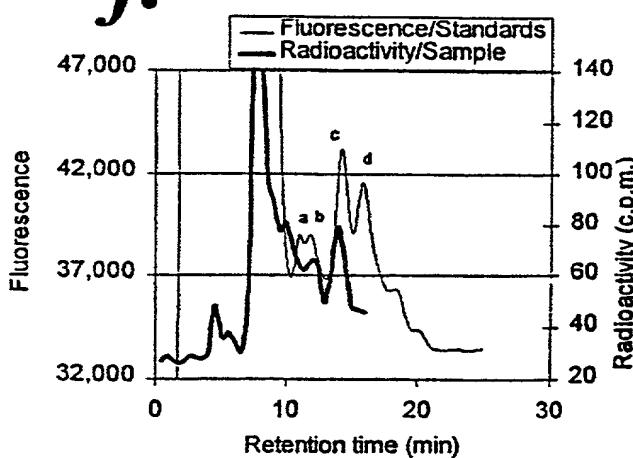


Fig. 5

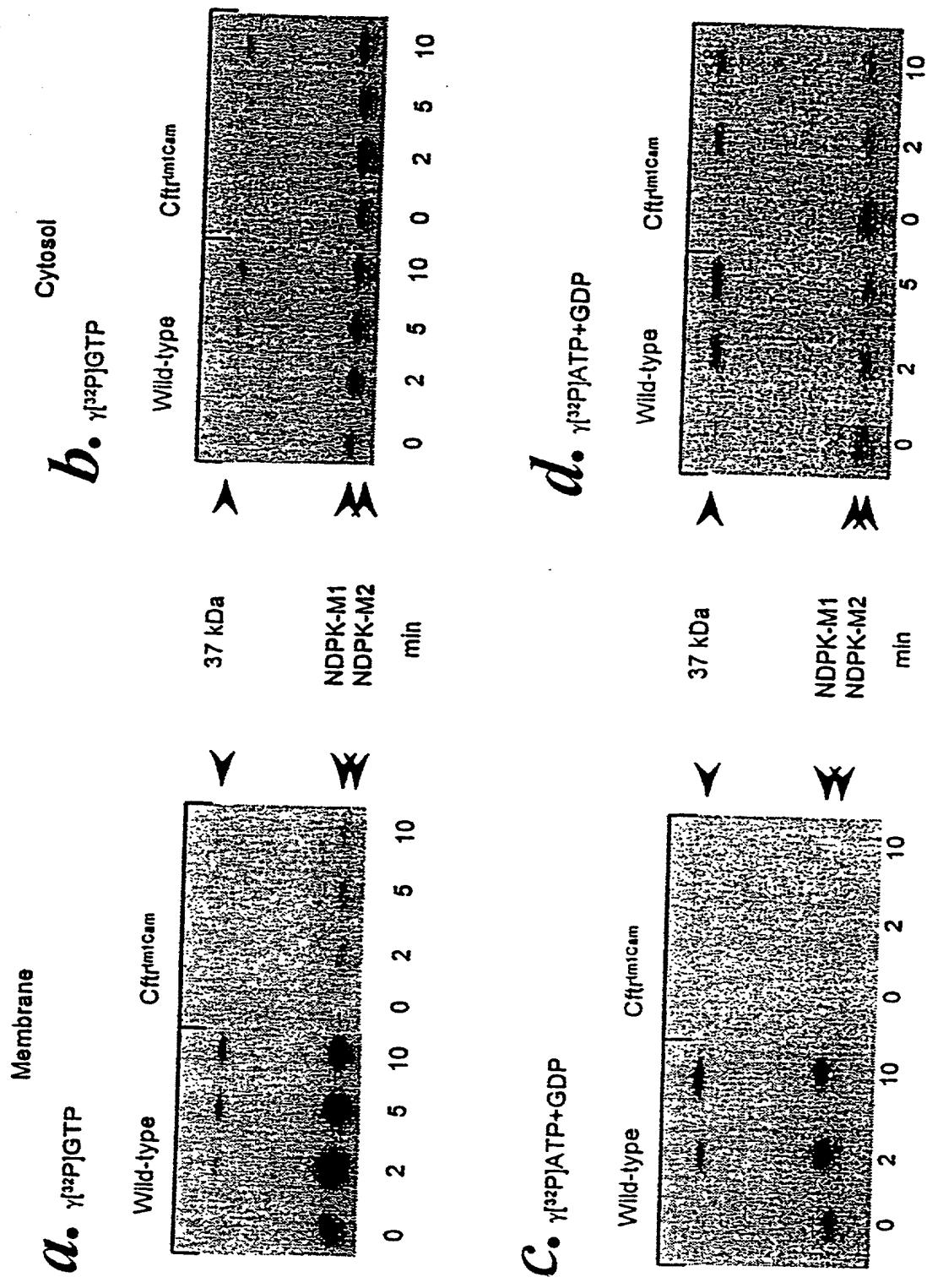


Fig. 6 (page 1 of 2)

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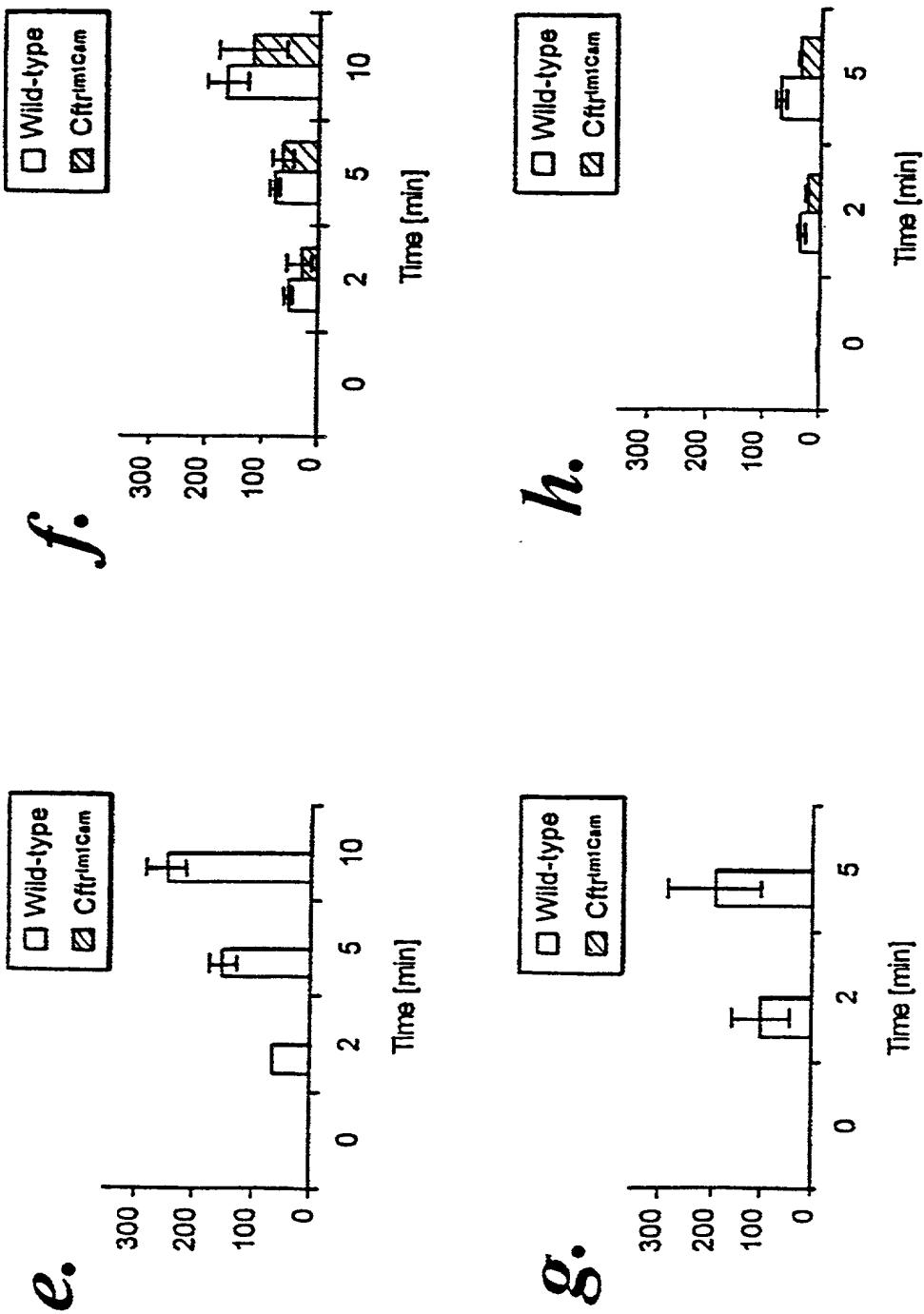


Fig. 6 (page 2 of 2)

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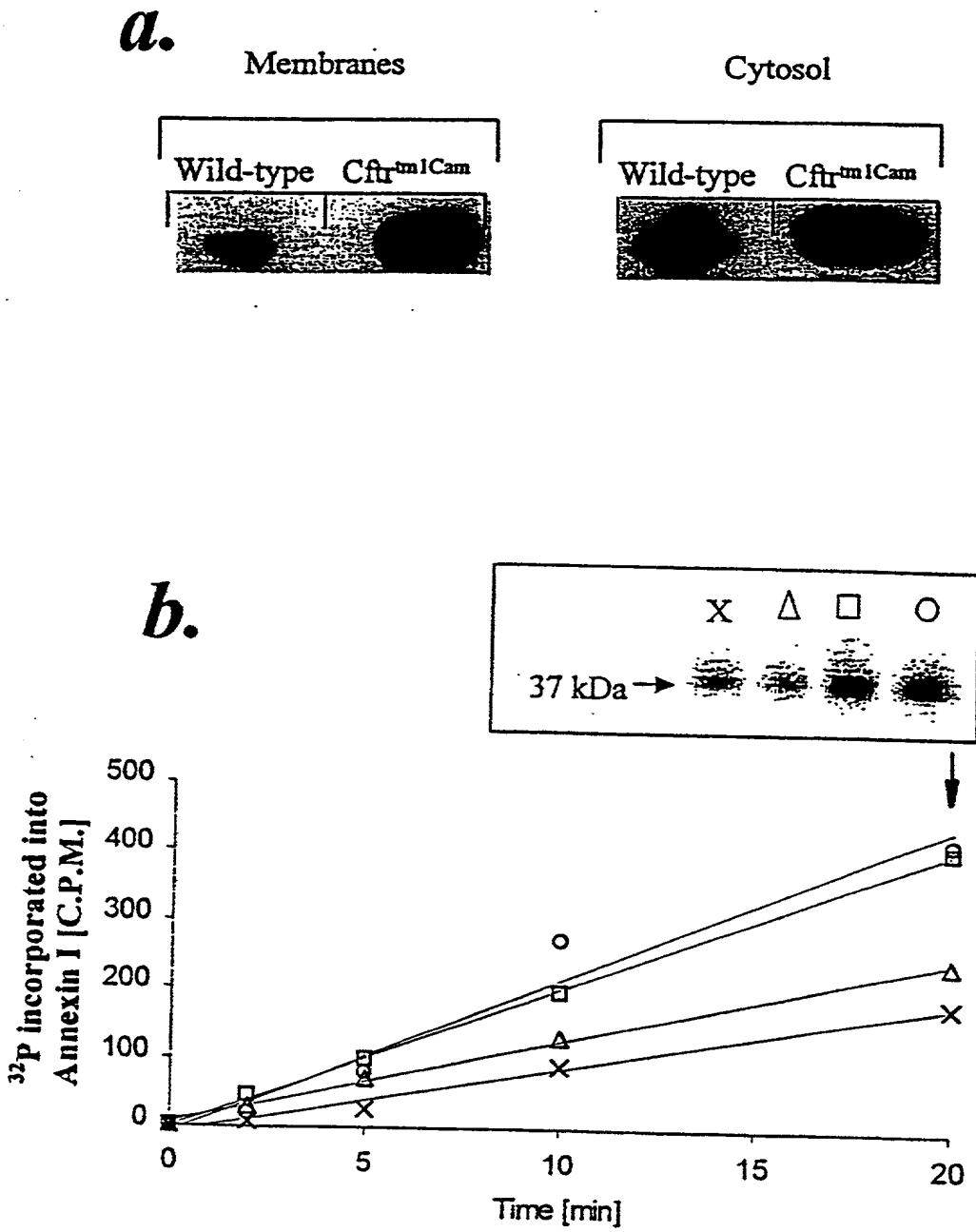


Fig. 7

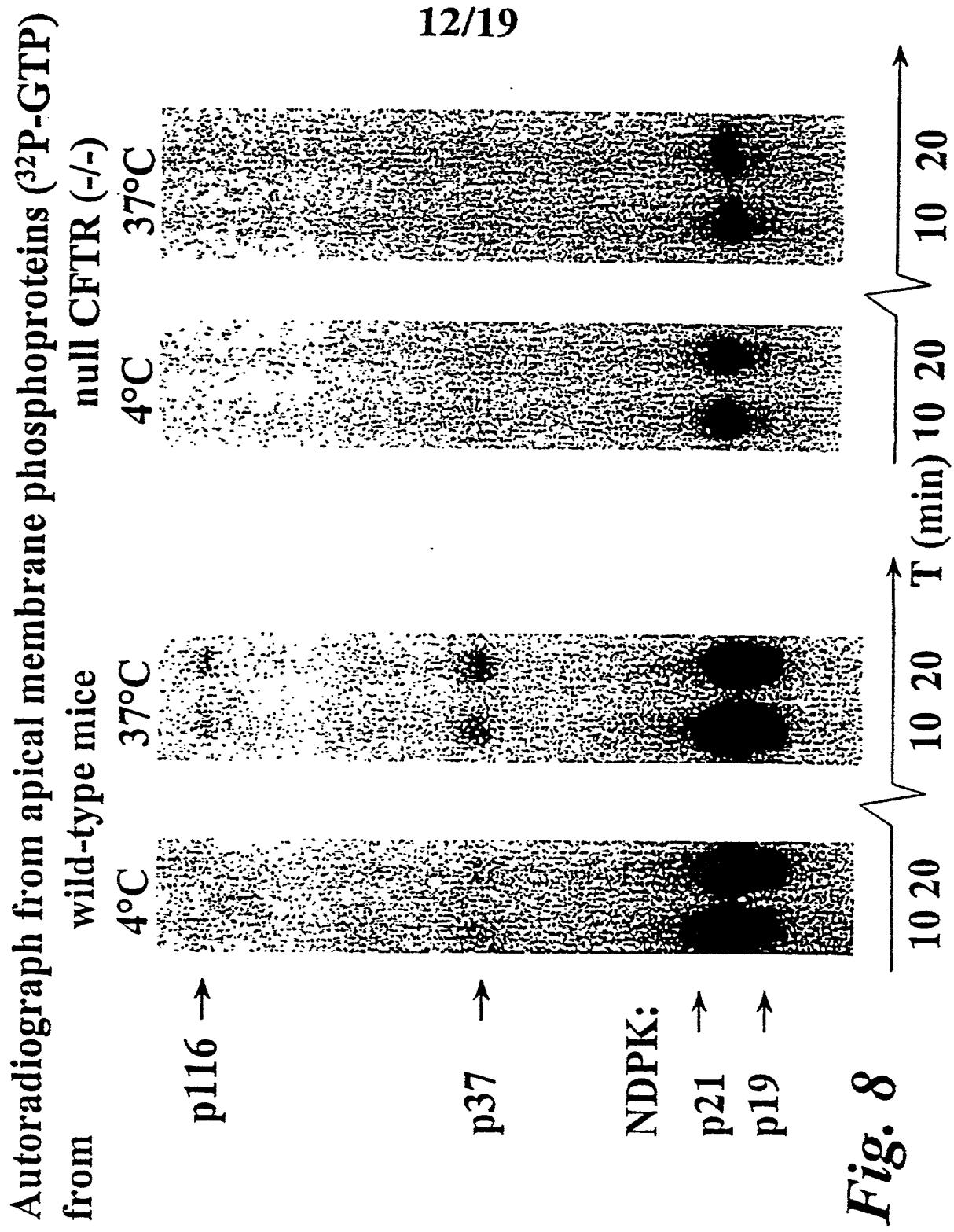


Fig. 8

Autoradiograph from apical membrane phosphoproteins from null CFTR (-/-) mice: ^{32}P -ATP

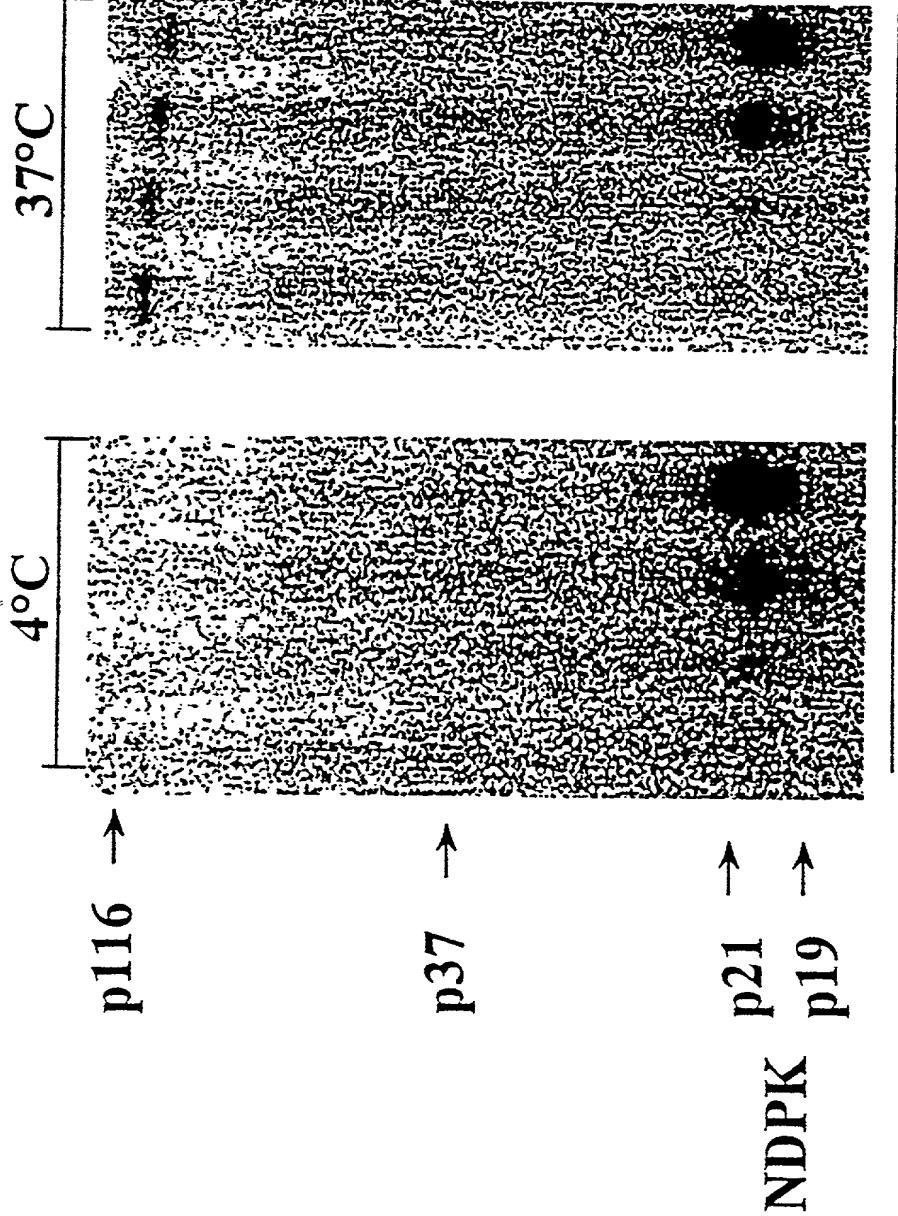


Fig. 9 Effect of [GDP] (nM) on the rate of conversion of $\text{ATP} \rightarrow \text{ADP} + \text{Pi}$ by $\text{ATP} \text{ase}$ in the absence of Mg^{2+} and in the presence of $10 \mu\text{M} \text{Mg}^{2+}$. The reaction mixture contained $10 \mu\text{M}$ ATP , $10 \mu\text{M}$ Mg^{2+} (where applicable), $10 \mu\text{M}$ ATPase and the indicated concentrations of GDP in a total volume of $100 \mu\text{l}$. The reaction was started by the addition of ATP and stopped after 10 min by the addition of $10 \mu\text{l}$ of $10 \text{ M} \text{ HCl}$. The reaction mixture was then diluted $1:10$ with $100 \text{ mM} \text{ Tris-HCl} / 100 \text{ mM} \text{ NaCl} / 10 \text{ mM} \text{ MgCl}_2$ (pH 7.0) and the absorbance at 340 nm was measured. The reaction mixture contained $10 \mu\text{M}$ ATP , $10 \mu\text{M}$ Mg^{2+} (where applicable), $10 \mu\text{M}$ ATPase and the indicated concentrations of GDP in a total volume of $100 \mu\text{l}$. The reaction was started by the addition of ATP and stopped after 10 min by the addition of $10 \mu\text{l}$ of $10 \text{ M} \text{ HCl}$. The reaction mixture was then diluted $1:10$ with $100 \text{ mM} \text{ Tris-HCl} / 100 \text{ mM} \text{ NaCl} / 10 \text{ mM} \text{ MgCl}_2$ (pH 7.0) and the absorbance at 340 nm was measured.

Autoradiograph from apical membrane
phosphoproteins from null CFTR (-/-) mice:

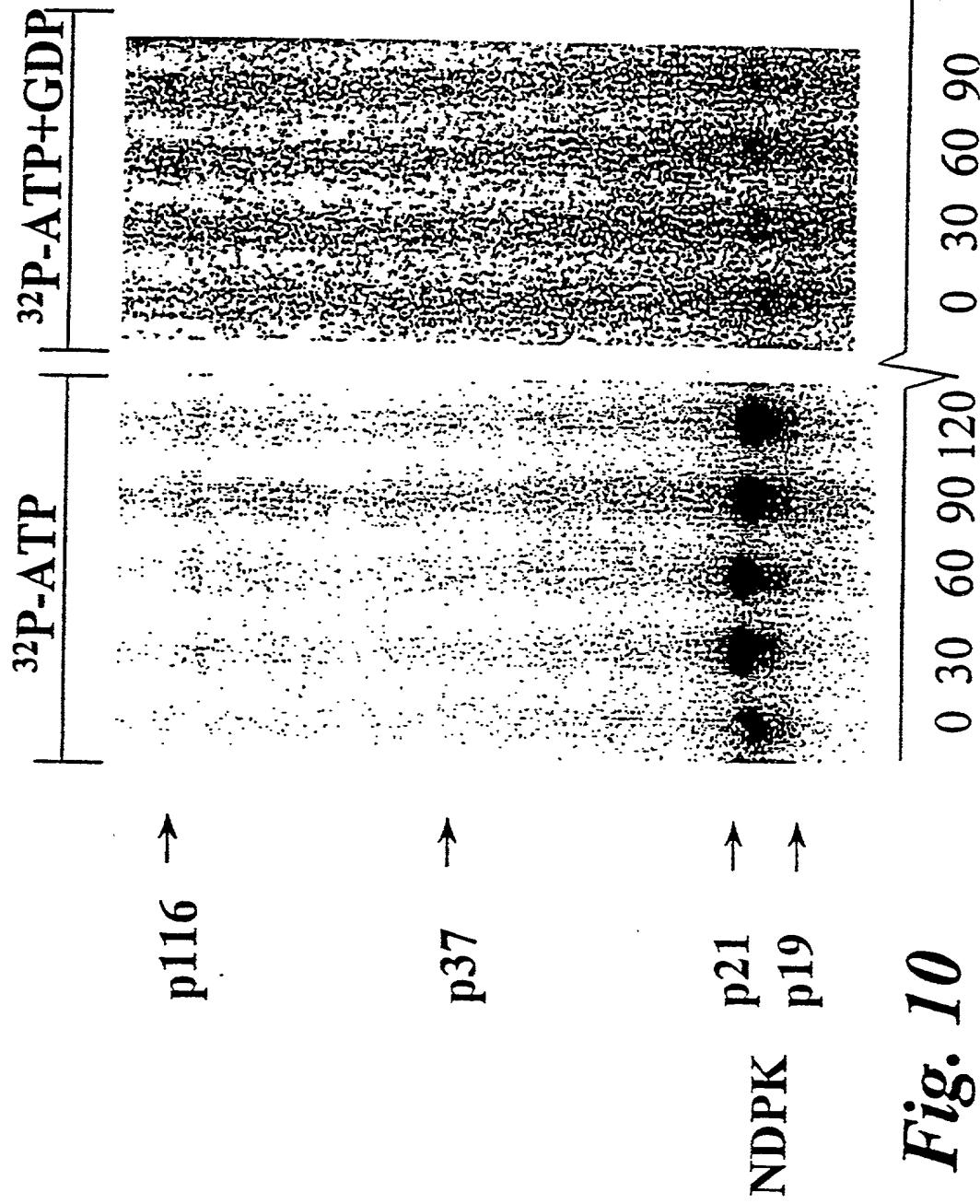


Fig. 10

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Autoradiograph from apical membrane
phosphoproteins from wild-type mice:

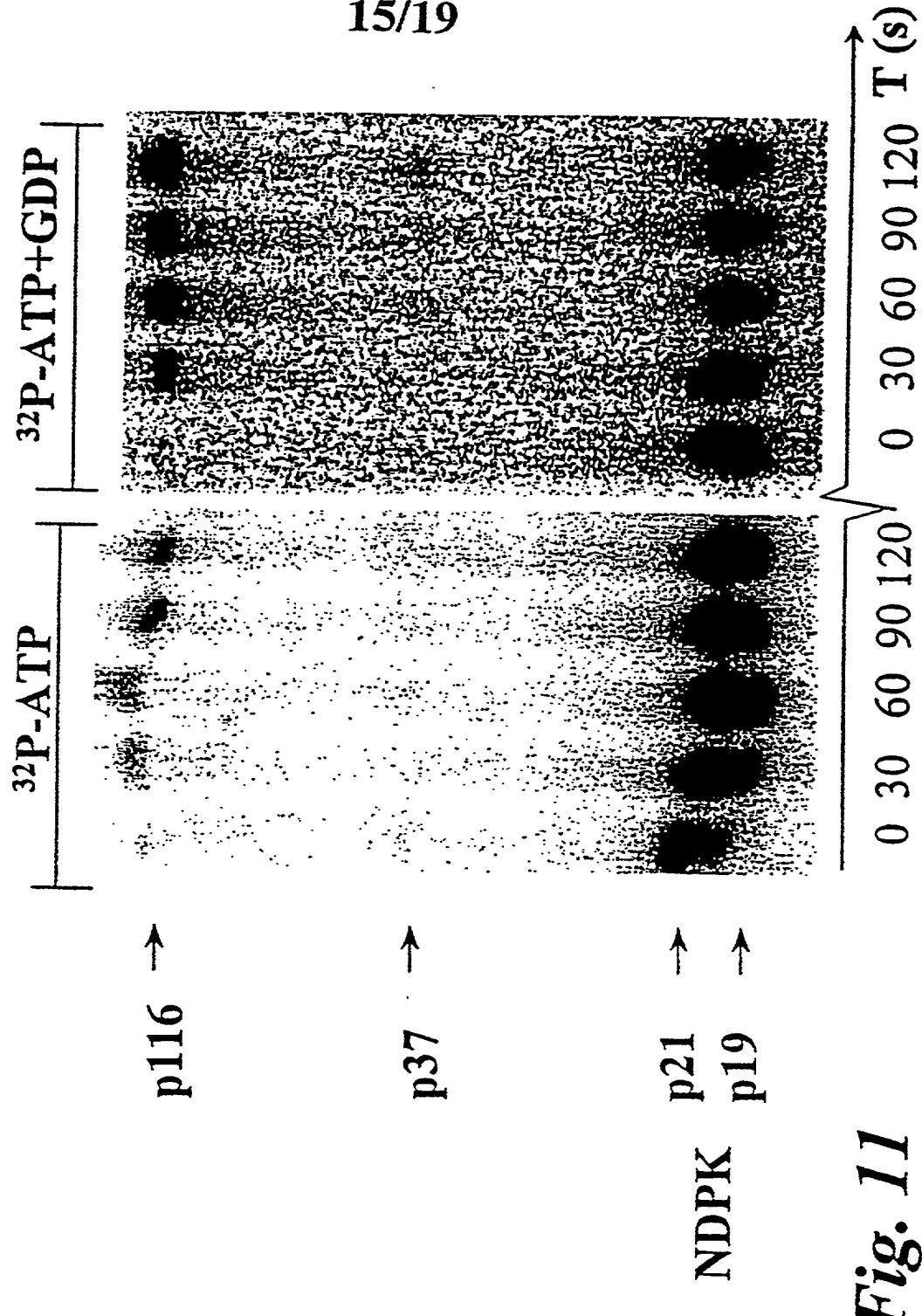


Fig. 11

Apical membrane from wild-type and null CFTR (-/-)* mice:

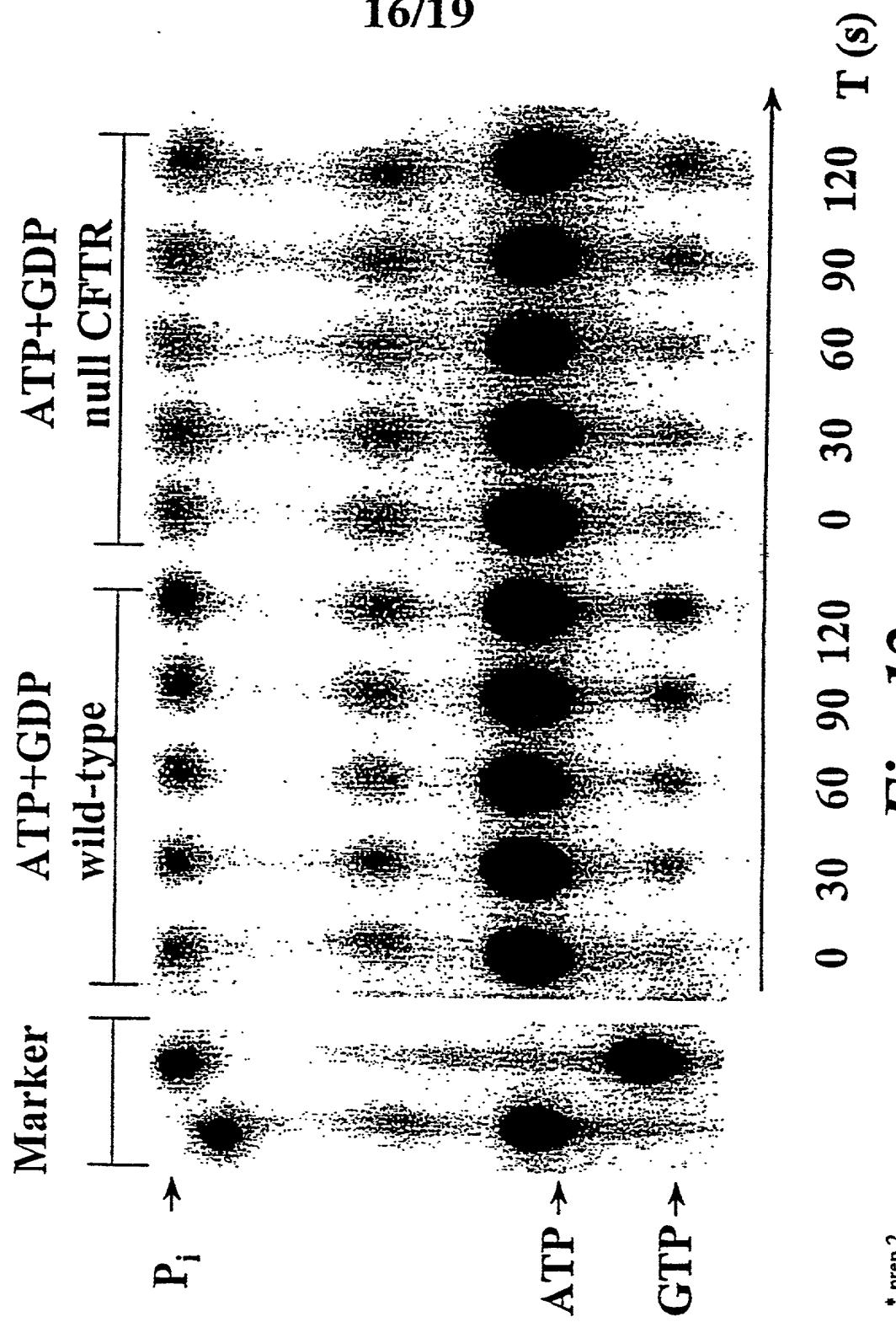


Fig. 12

* prep 2

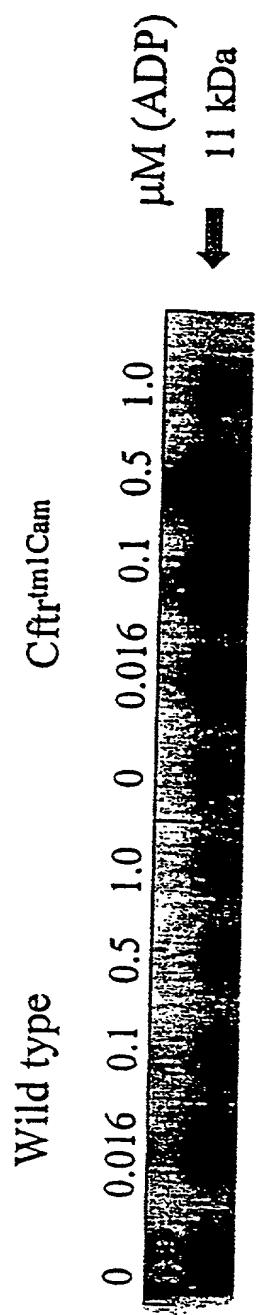


Fig. 13

Fig. 14

1

37 kDa
(Annexin I)

21 kDa
C-terminus
of Annexin I

SEELAVNDLADSAR (188-204) (SEQ ID NO. 5)
VLDLELKGDIEK (251-262) (SEQ ID NO. 6)

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	230	240	250	260	270	280	290
Bovine	—	—	*	—	—	—	—
Human	RSYPHLRRVFQKYSKHSMDNKKVLDLELKGDIKEKCLTVIVKCATSQPMFFAEKLHQAMKGIGTRHK...	RSYPQLRRVFQKYTQKYSKHSMDNKKVLDLELKGDIKEKCLTAIVKCATSKPAFFAEKLHQAMKGVGTRHK...	RSFPHLRRVFQNYGKYSQHDMNKKALDIELKGDIEKCLTTIVKCATSTPAFFAEKLHQAMKGAGTRHK...
Mouse	RSYLNHLLRRVFQKYSKHSMDNKKVLDLELKGDIKEKCLTAIVQCATCKPAYFAEKLYQAMKGAGTRHK...	RSYLNHLLRRVFQKYSKHSMDNKKVLDLELKGDIKEKCLTAIVQCATCKPAYFAEKLYQAMKGAGTRHK...	RSYLNHLLRRVFQKYSKHSMDNKKVLDLELKGDIKEKCLTAIVQCATCKPAYFAEKLYQAMKGAGTRHK...
Rabbit	RSYLNHLLRRVFQKYSKHSMDNKKVLDLELKGDIKEKCLTAIVQCATCKPAYFAEKLYQAMKGAGTRHK...	RSYLNHLLRRVFQKYSKHSMDNKKVLDLELKGDIKEKCLTAIVQCATCKPAYFAEKLYQAMKGAGTRHK...	RSYLNHLLRRVFQKYSKHSMDNKKVLDLELKGDIKEKCLTAIVQCATCKPAYFAEKLYQAMKGAGTRHK...

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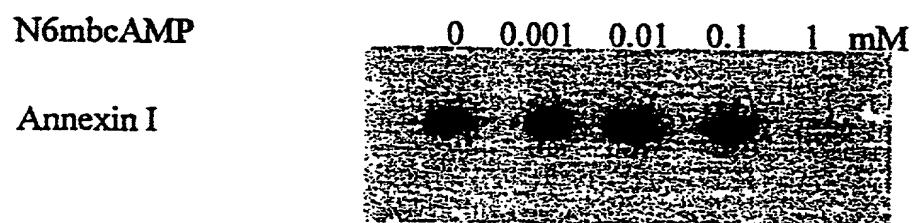


Fig. 15